Naval Information Warfare Center Atlantic

Fleet C4I And Readiness Department

Tidewater Association of Service Contractors
Naval Information Warfare Center Atlantic Industry Day

16 June 2021

Mr. Travis Tillman
Deputy Department Head (700s)

**Department Division Heads
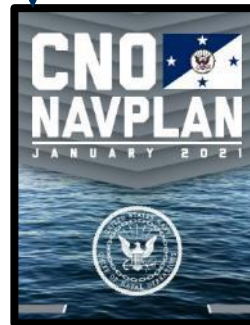Integrated Project Team Leads**

NIWC Atlantic is part of the Naval Research & Development Establishment (NR&DE)

Executing National and Naval Strategies
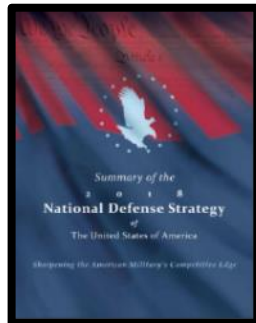
National Defense Strategy

"Advantage at Sea" Tri-Service Maritime Strategy

CNO NAVPLAN

38th Commandant's Planning Guidance

DON **Unmanned Campaign Framework**

Partners:

- ✓ Match and deliver the Navy's demand for new technologies and equipment.

- ✓ Ensure the growth and health of technical knowledge and skills.

- ✓ Improve planning and communication. Keep lines of communication open, deliver on time.

NIWC Atlantic's Execution Plan Aligns to NAVWAR's Strategic Vision to execute National and Naval strategies
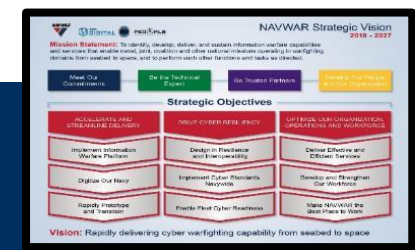
The Solutions Provider for Mission Critical Information Warfare

▼ **Fleet C4I and Readiness Department**

FY20: 1,567 FTEs, 150 Programs/Projects

- **Engineer** (design, develop and test) new C4ISR capabilities that give our Fleet an advantage over adversaries.

- **Integrate** C4ISR systems into the U.S. Navy's most advanced ships, submarines and shore platforms.

- **Install** C2, intel, communications, networks and applications for the Fleet.

- **Support** Fleet C4ISR systems to maintain operational availability and complete lifecycle engineering.
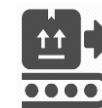
Naval Information Warfare Center ATLANTIC

Research & Development, Design, Engineering and ISEA

Design, Integration, Production and Sustainment

FLEET C4I & READINESS DEPARTMENT
Greg Lancaster

Deputy 100s	Deputy 700s
Greg Lancaster (A)	Travis Tillman

Battle Space Awareness Div. (PMW 120) John Thompson	IA & Navy Cyber Security Div. (PMW 130) Jeff Sweeney	Navy Afloat Network & C2 Apps Div. (PMW 150 & 160) Bob Rozar	Navy Afloat Transport & Navigation Div. (PMW 170) Robert James	Foreign Military Sales/Air Integration/USCG Div. (PMW 740) Martina Jackson	Surface Ship Integration Div. (PMW 750/760) Mark Held	Submarine Integration Div. (PMW 770) Dave Bednarczyk	Shore C4I Integration Div. (PMW 790) Mark Luther
Afloat Signals Exploitation	Navy Cyber	Tactical Networks SW Support	Afloat Transport Systems	NAVAIR FMS	Surface New Construction	Submarine CWITTS & SWFTS Modernization	Naval Messaging
Distributed Common Ground System-Navy (DCGS-N)	Network Security	CANES Engineering	SW Defined Radio	TacMobile	Large Deck New Construction	Afloat Submarine C4I	Tactical Shore Systems
Integrated Undersea Surveillance Systems (IUSS)	Crypto and Key Management	TACNET Deployment	Position, Navigation & Timing (PNT)Engr.	C4I FMS	Interior Comms	Shore Submarine C4I	Unified Capabilities Voice Solutions
	Multi-Level Security Engineering (MLSE)	Naval C2	PNT ISEA	USCG		Submarine Software and Tools Development	Secure Voice Solutions
			Radio Communications				Multi Media

Deliver Right on Time and on Cost (C/S/P)

Field and Sustain C4I Capabilities

6.2 Competency Manager
George Spellman, Deputy – Ray Chappell

62100 – PMW 130/150/740	62700 – PMW 750/760/770
62400 – PMW 120/160/790	62A00 – PMW 170
62600 – PMW 770/FIR Div.	

Fleet Installations and Response Division
Len Little

Fleet Support Office (FSO)	Surface Modernization Unit Level
Performance Based Logistics Office (PBLO)	Surface Modernization Force Level
Depot	Submarine Modernization C4I
	Shore Modernization

FY20 C4I Authorized Obligations and PR Count by Division

|	PMW 120	PMW 130	PMW 150	PMW 160	PMW 170	FRD	PMW 750 / 760	PMW 790	PW 770	FMS	Non Continuing
Authorized Obligation	$80,644K	$50,263K	$36,386K	$45,085K	$69,327K	$116,258K	$72,991K	$55,120K	$56,698K	$119,978K	$0K
Count of PR #	208	62	114	147	307	551	319	181	192	230	1

Fleet is the Priority

▼ COVID-19 Impact – **Distance Support**

▼ **No seams** – single Department manages all work executed within PEO C4I

▼ Cybersecurity is not in the trade space – Focus on the **Fleet/Waterfront** – Cannot deliver capability that isn't cyber secure

▼ Capability must be designed to be modular, rapidly upgradable and standards-based – **Align to C4I Information Warfare Digital Execution Plan**

- Agile Core Services
- Development, Security and Operations (DevSecOps)
- Cloud Computing
- Digital Twin
- Virtual Training

▼ Increase understanding of **system functionality** to mission capability

▼ **Implement Digital Engineering practices** with MBSE and Agile development

▼ Rapidly assess, integrate and deliver science and technology innovations to **maintain naval advantage**

Agile Core Services (ACS)   Application Architecture   Data Stewardship

DevOps   Cloud Computing   Digital Twin   Virtual Training
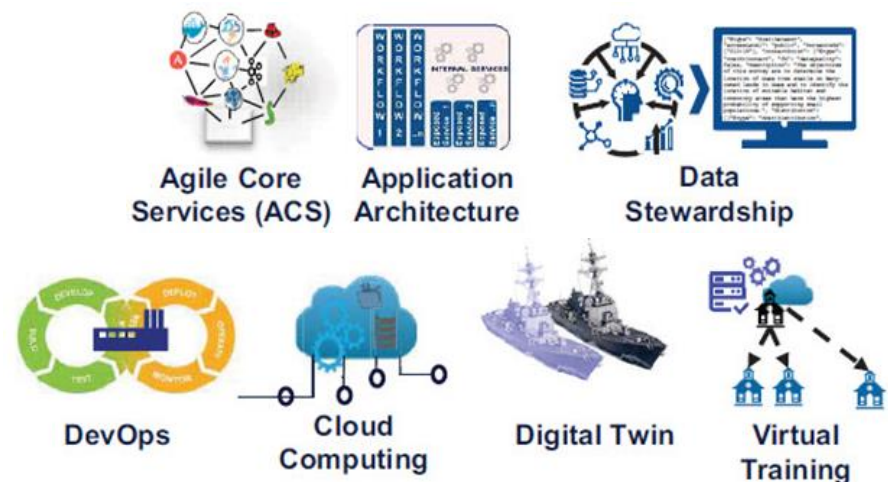
Adapting to the COVID-19 Environment

▼ NIWC Atlantic implemented maximum telework early March 2020
- Ongoing telework, continuing uninterrupted support
- Hands on deck for mission essential/critical work

▼ Mission Essential functions
- Engineering lab integration and production
- Capability delivery and sustainment

▼ Future State
- Likely that more employees will be on expanded telework moving forward
- Potential to relieve ongoing physical space restrictions
- Potential reduction in cost to taxpayer
- How will future DoD budgets be impacted?

▼ TW Imperatives
- Employee Support
- Network Infrastructure
- Apps to enable remote work execution (MS Teams)

How is Industry responding and managing bringing staff back?

On the Horizon — Next Technologies Needed

▼ AI/ML capabilities: Autonomous system operation, System Troubleshooting, Predictive maintenance

▼ Autonomous
  - Autonomous vessels to offload risk from manned vessels
  - Platforms capable of weeks-long deployments and transoceanic transits and operate aggregated with Carrier Strike Groups (CSGs), Amphibious Ready Groups (ARGs), Surface Action Groups (SAGs), and individual manned combatants.
  - Reconfigurable mission capability
  - USV Command and Control (C2)

▼ Resilient Communications: Reduced or denied environments

▼ Model Based Systems Engineering (MBSE)

▼ DevSecOps:
  - Continuous Integration/Continuous Delivery (CI/CD) pipeline and environments
  - Automated Patching/IA compliance (push technology)

▼ Edge computing: Data processing onboard
  - Enables analysis onboard with transmission of only critical information

▼ 5G Capabilities
  - Increased bandwidth, improved security, IOTs

Powering Forward — Fleet C4I Thrust Areas

Thrust Area 1: Cybersecurity

Goal: Become a cybersecurity center of excellence by ingraining cybersecurity practices in all of our engineering efforts.

Initiatives: Improve understanding of current guidance through training, document and share current cyber tasking across the Department and improve vulnerability and patch management for lab systems and program baselines.

Technology Focus Area Alignment: Cybersecurity; Assured Communications

Thrust Area 2: Innovative Culture

Goal: Increase the number of IPTs creating their own future curve by pursuing improvement opportunities – new warfighter technical solutions, workforce training and lab improvements.

Initiatives: Network and Data Center Intelligent Assistant (CANES Engineering IPT); Examination of RF Propagation Commonality Strategies using Radiating Coaxial Cables (Interior Comms IPT); Orchestration Architecture for Military RF Communications Systems (SDRS IPT); Remote Testing at the NIEF (CANES Deployment IPT); Tactical, Deployable MUOS (SDRS IPT); Resilient Communications Workshop (SDRS IPT); MBSE to MBT/RPA (Naval C2 IPT)

Technology Focus Area Alignment: Assured Communications, Artificial Intelligence, Model Based Systems Engineering

Thrust Area 3: High Velocity Learning

Goal: Create technical transparency across our IPTs and improve awareness of how system capabilities are used by the warfighter to support missions.

Initiatives: Quarterly IPT Tri-charts, monthly Thrust Area meetings, Mission Competency development leadership and support.

Strategically Aligning and Posturing to Support the Deployed Navy

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▼ Increasing our strategic partnership presence with SEA21 to more effectively integrate maintenance strategies, modernization plans, and technical and logistic efforts – civilian representative in D.C. and civilian/military officer at MARMC

▼ Increasing our speed to capability by forward deploying Capability Based – In-Service Engineering Activity (CB-ISEA) personnel (3x) with sponsorship by CNRMC. Streamlining Fleet Support Office touch points through CB-ISEA for government and contractor resources

▼ Deploying project teams for installation efforts utilizing system subject matter efforts for both software loading and SOVTs

▼ Maintaining regional shore installation managers in Bahrain and Naples

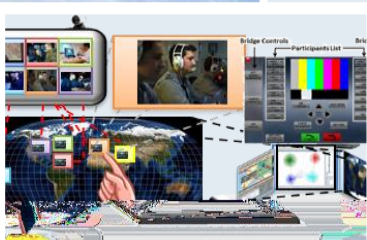▼ Increasing Rota military presence utilizing Active Duty for Special Work (ADSW) assignments

Global Strategic Presence and Partnerships

Groton
National Capital Region
Hampton Roads
Charleston NIWC Atlantic
Mayport
Kings Bay
NAVSEA NAVAL SEA SYSTEMS COMMAND
Rota
Naples
NAVSEA NAVAL SEA SYSTEMS COMMAND
Bahrain

Greg Lancaster, Deputy 100s (A)
Fleet C4I and Readiness Divisions (100s)

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Research & Development, Design, Engr. and ISEA

▼ **Battlespace Awareness Division**
- Delivers intelligence and IO products and services to Warfighters, with primary customer PMW 120 (ISR/IO). Provides the ISR/IO Capability-Based In-Service Engineering Activity (CB-ISEA) services.

▼ **Information Assurance and Navy Cybersecurity Division**
- Delivers cybersecurity protection of DoD IT and telecom systems with cryptographic, network and host-based security products that ensure strong authentication, data integrity, confidentiality, non-repudiation and availability of network information.

▼ **Navy Afloat Network and Command & Control Apps Div.**
- Rapidly deliver integrated wide area, local networking and foundation computing systems products and services to Warfighters. Delivers operational and tactical command and control capabilities by integrating real-time and near real-time representations of tactical situations, providing targeting support and chemical-biological warnings. Major systems include CANES, ADNS, ISNS, CENTRIXS, CES, Afloat Readiness Reporting System, Global Theater Security Cooperation Management Information System, Global C2 System – Maritime, Global C2 System – Joint, theatre Battlefield Management Command System, Joint Automated Deep Operations Coordination System, Air Defense Systems Integrator, Link-11, Link Monitoring Management Tool and Multi-Data Link Management System.

▼ **Navy Afloat Transport and Navigation Division**
- Provides engineering integration and lifecycle support to Navy Afloat Transport Systems. Integrate, deliver and support interoperable communications, enabling seamless Fleet operations. Provides improvements to GPS receivers and antennas and non-GPS sensors and systems. Integrates, tests and evaluates, sustains and supports software-defined radio communications solutions for the Warfighter.

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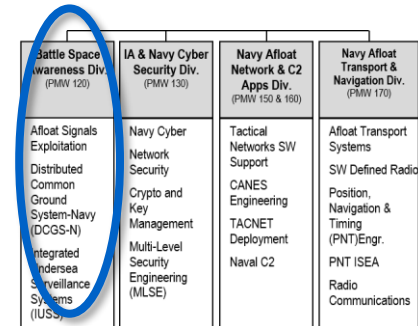# Battlespace Awareness Division (PMW 120)
Overview

▼ **What We Do**
- Deliver intelligence and information operations data, products and services that provide Information Warfare solutions for the Fleet.

▼ **Major Systems**
- PMW-120
  - Distributed Common Ground System – Navy (DCGS-N),
  - Integrated Imagery & Intelligence (I3) Project - IMINT
  - Ship's Signal Exploitation Equipment (SSEE)
  - Cryptologic Carry-On Program (CCOP)
  - Automated Identification System (AIS)
  - Joint Tactical Terminal – Maritime (JTT-M)
  - AN/URC-148 (V)
- PMS-485
  - Integrated Undersea Surveillance Systems (IUSS)

▼ **Primary Customers**
- PEO C4I PMW 120 Battlespace Awareness and Information Operations
- Fleet Readiness Directorate (FRD)
- NAVSEA & PEOs
- PMS 485 Maritime Surveillance Systems

Battle Space Awareness Div. (PMW 120)	IA & Navy Cyber Security Div. (PMW 130)	Navy Afloat Network & C2 Apps Div. (PMW 150 & 160)	Navy Afloat Transport & Navigation Div. (PMW 170)
Afloat Signals Exploitation	Navy Cyber Network Security	Tactical Networks SW Support	Afloat Transport Systems
Distributed Common Ground System-Navy (DCGS-N)	Crypto and Key Management	CANES Engineering	SW Defined Radio
Integrated Undersea Surveillance Systems (IUSS)	Multi-Level Security Engineering (MLSE)	TACNET Deployment	Position, Navigation & Timing (PNT)Engr.
		Naval C2	PNT ISEA
			Radio Communications

Division Head: John Thompson
FY20 TOA: $112,359,900

Support includes ISR/IO systems, engineering services and support to the Fleet.

# IA & Navy Cyber Security Division (PMW 130)
Overview

▼ What We Do

- Rapidly deliver cybersecurity products and services to ensure continued protection of Navy and joint information, tele-communications and information systems.
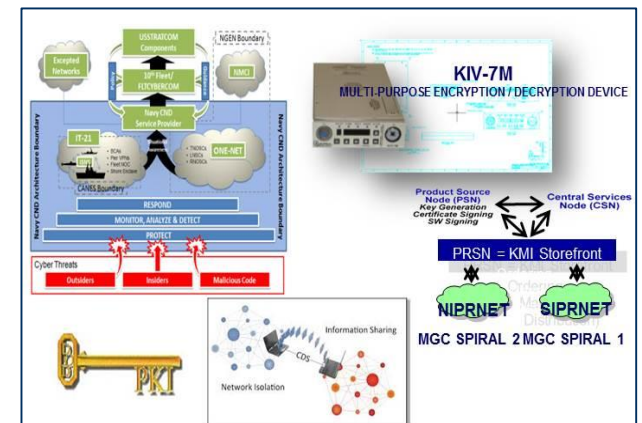
▼ Major Systems

- Computer Network Defense (CND)
- Serial Crypto
- Key Management Infrastructure (KMI)
- Public Key Infrastructure (PKI)

▼ Primary Customers

- PEO C4I PMW 130
- Fleet Readiness Directorate (FRD)
- Fleet Cyber Command (FCC) / Tenth Fleet (C10F)
- National Security Agency (NSA)
- United States Cyber Command (USCC)
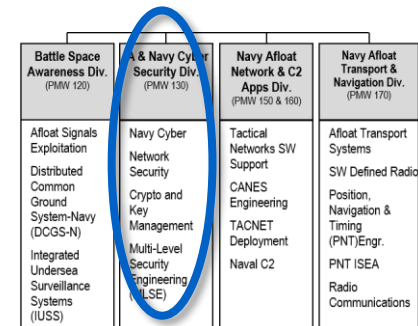
Division Head: Jeff Sweeney
FY20 TOA: $92,194,200

Support includes products and services to ensure strong authentication, data integrity, confidentiality, non-repudiation and availability of network resources and information.

Future Opportunities & Needs

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▼ **Future Opportunities/Growth**

- **Computer Network Defense**
  - Future Contracts
    - RDT&E, Production Engineering, Integration, Sustainment, and Logistics Services (SEAPORT/Fall 2021)
  - Lab Automation
  - Model Based Systems Engineering (MBSE)
  - Sustainment, A&A, installs, distance support
  - Artificial Intelligence and Data Analytics in Intrusion Prevention and Detection Systems

- **Crypto & Key Management**
  - Future Contracts
    - Crypto and Key Management ISEA Support (SEAPORT/Summer 2022)
  - Identity Credential Access Management (ICAM) Architecture expertise
  - Over the Net Keying (OTNK) expertise
  - Certificate and Credential Management expertise
  - Crypto Modernization expertise
  - Sustainment, A&A, installs, distance support

▼ **Where Industry can Help**

- Match and deliver the Navy's demand for new technologies and equipment.

- Ensure the growth and health of technical knowledge and skills.

- Improve planning and communication. Keep lines of communication open, deliver on time.

Navy Afloat Network and Command & Control Applications Div. (PMW 150 & 160) **Overview**

▼ **What We Do**

- Rapidly deliver integrated wide area, local networking and foundation computing systems products and services to naval warfighters. Deliver operational and tactical command and control capabilities by integrating real-time and near real-time representations of tactical situations, providing targeting support and chemical-biological warnings

▼ **Major Systems**

- Consolidated Afloat Network Enterprise Systems (CANES)
- Automated Digital Network System (ADNS)
- Integrated Shipboard Network Systems (ISNS)
- Combined Enterprise Regional Information Exchange System (CENTRIXS)
- Core Enterprise Services (CES)
- Afloat Readiness Reporting System
- Global Theater Security Cooperation Management Information System,
- Global C2 System – Maritime and Global C2 System – Joint
- Theatre Battlefield Management Command System
- Joint Automated Deep Operations Coordination System
- Air Defense Systems Integrator
- Link-11
- Link Monitoring Management Tool
- Multi-Data Link Management System

▼ **Primary Customers**

- PEO C4I PMW 160 and Fleet Readiness Directorate (FRD)
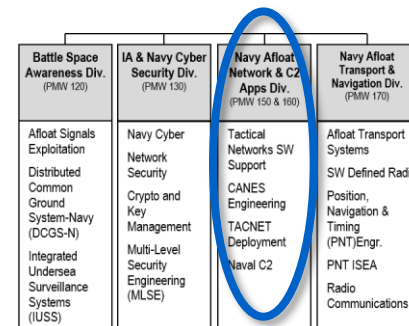
Division Head: Bob Rozar
FY20 TOA: $60,399,200
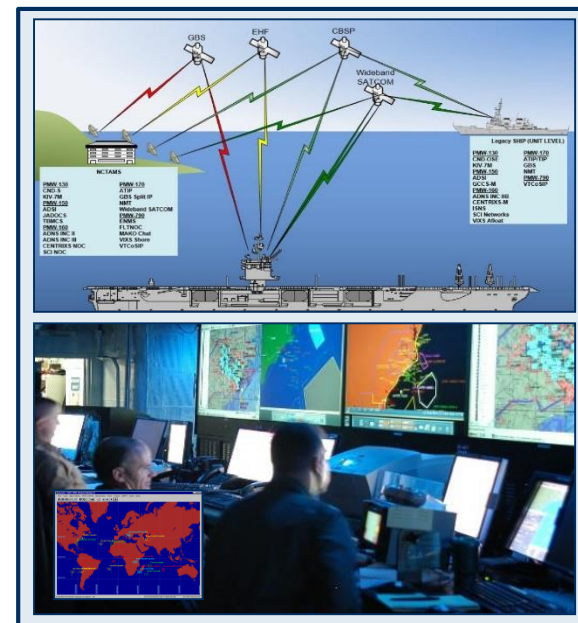
Navy Afloat Networks & C2 Apps. Div. (PMW 150 & 160)
Future Opportunities & Needs

▼ **Future Opportunities/Growth**

- DevSecOps

- MBSE

- Automation, Integration, Installation, and Sustainment of COTS

- Proactive Sustainment

- Cybersecurity Compliance to include Risk Management Framework (RMF)

- Software Defined Networking and Software Networks

- Systems Management

▼ **Where Industry can Help**

- Robust, secure cloud environments to support DevSecOps and a distributed workforce

- Professionals

Navy Afloat Transport and Navigation Division (PMW 170)
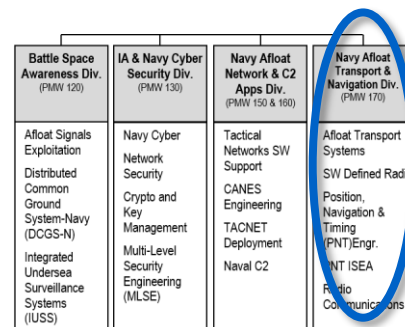# Overview

▼ **What We Do**

- Rapidly deliver assured, resilient communications and Position, Navigation and Timing (PNT) products and services, to enable information warfare capabilities for maritime. Provide Subject Matter Experts (SMEs), test and acquisition support for waveforms being developed for use within the battlefield.
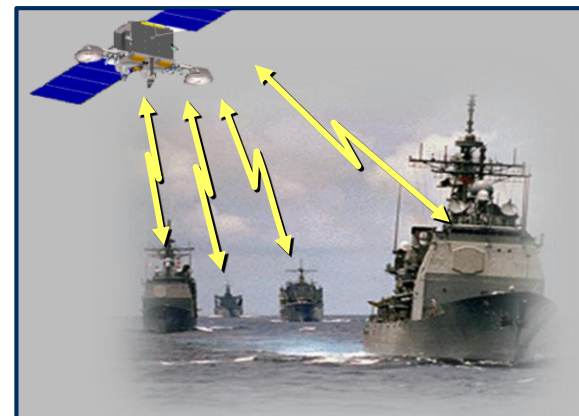
▼ **Major Systems**

- Navy Multiband Terminal (NMT)
- Global Broadcast System (GBS)
- Commercial Broadband Satellite Program (CBSP)
- Digital Modular Radio (DMR)
- Battle Force Tactical Network (BFTN)
- GPS-based Positioning, Navigation and Timing Service (GPNTS)

- Inertial Navigation Systems (INS)
- Alternatives to GPS in a Denied Environment
- Network Tactical Common Data Link (NTCDL)
- Next Generation Tactical Communications
- Joint Tactical Networking Center (JTNC) Joint Communications Marketplace

▼ **Primary Customers**

- PEO C4I PMW 170
- Fleet Readiness Directorate
- PEO C3T
- PEO Missiles and Space
- PEO IWS 6
- PEO SUBS

- PEO Space
- JTNC
- ONR (Inter-NIWC Teaming)
- SOCOM PEO-C4 (Inter-NIWC Teaming)

Battle Space Awareness Div. (PMW 120)	IA & Navy Cyber Security Div. (PMW 130)	Navy Afloat Network & C2 Apps Div. (PMW 150 & 160)	Navy Afloat Transport & Navigation Div. (PMW 170)
Afloat Signals Exploitation	Navy Cyber Network Security	Tactical Networks SW Support	Afloat Transport Systems
Distributed Common Ground System-Navy (DCGS-N)	Crypto and Key Management	CANES Engineering	SW Defined Radio
Integrated Undersea Surveillance Systems (IUSS)	Multi-Level Security Engineering (MLSE)	TACNET Deployment Naval C2	Position, Navigation & Timing (PNT)Engr. PNT ISEA Radio Communications

Division Head: Robert James
FY20 TOA: $130,823,300

Support includes MILSATCOM and COMSATCOM engineering services and support to the Fleet.

Navy Afloat Transport and Navigation Division (PMW 170)
Future Opportunities & Needs

▼ **Future Opportunities/Growth**

- Radio Communications
  - UHF Shore Site upgrades
  - Modernizing HF/VHF/UHF Surface/Subsurface
  - Improved Assured Communications
- Satellite Communications
  - Continued shore modem installations
  - Future Modem development/testing/integrations
- Software Defined Radio Systems
  - Assured Communications
  - Orchestrated Communications and Automation
  - Electronic Warfare
  - Naval Operational Architecture support
- PNT
  - Navigation Collaboration and Systems of Systems
  - Model-Based System Engineering
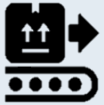 - Virtualization Lab Efforts

▼ **Where Industry can Help**

- Match and deliver the Navy's demand for new technologies and equipment.
- Ensure the growth and health of technical knowledge and skills.
- Improve planning and communication. Keep lines of communication open, deliver on time.

Design, Integration, Production and Sustainment

Foreign Military Sales/Air Integration/USCG Div. (PMW 740) Martina Jackson	Surface Ship Integration Div. (PMW 750/760) Mark Held	Submarine Integration Div. (PMW 770) Dave Bednarczyk	Shore C4I Integration Div. (PMW 790) Mark Luther
NAVAIR FMS	Surface New Construction	Submarine CWITTs & SWFTS Modernization	Naval Messaging
TacMobile	Large Deck New Construction	Afloat Submarine C4I	Tactical Shore Systems
C4I FMS	Interior Comms	Shore Submarine C4I	Unified Capabilities Voice Solutions
USCG		Submarine Software and Tools Development	Secure Voice Solutions
			Multi Media

▼ **Foreign Military Sales / Air Integration / U.S. Coast Guard Division**

- Delivers and integrates tailored, C4I-releasable systems to foreign partners through Foreign Military Sales and Foreign Military Financing to enhance interoperability between the U.S. and international partners. Provides engineering integration and lifecycle support for Navy TacMobile along with C4I systems integration, installation and testing for new construction USCG ships.

▼ **Surface Ship Integration Division**

- Delivers integrated and interoperable C4I capabilities and support to new construction Navy aircraft carriers, amphibious ships, command ships and aircraft. Designs, integrates and tests interoperable C4I end-to-end capabilities to Navy and Coast Guard ships during new construction and modernization.

▼ **Submarine Integration Division**

- Delivers vital naval capabilities by connecting the entire undersea architecture of manned and unmanned systems and undersea vehicles to maximize joint warfighting capability.

▼ **Shore C4I Integration Division**

- Delivers integrated and interoperable C4I capabilities and support to the Navy's shore and expeditionary forces through modernization, acquisition and system integration.

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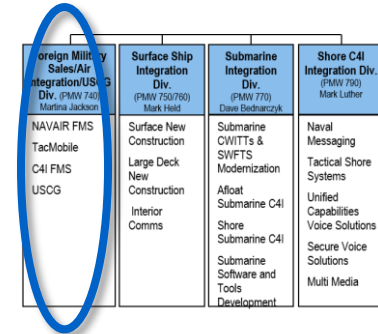# FMS/Air Integration/USCG Division (PMW 740)
Overview

▼ What We Do

- Delivers engineering, integration and lifecycle support of C4I systems for naval aviation platforms, Foreign Military Sales and USCG ships.

▼ Major Systems

- TacMobile Tactical Operations Center (TOC) / Mobile Tactical Operations Center (MTOC)
- Broad Area Maritime Surveillance – Demonstrator (BAMS-D) Tactical Auxiliary Ground Station
- C4I Systems Foreign Military Sales (FMS)
- United States Coast Guard ship new construction and modernization

▼ Primary Customers

- PEO C4I PMW 740/750/760
- NAVAIR PMA 290
- USCG C5ISC and CG-9
- NAVSEA & PEOs

Foreign Military Sales/Air Integration/USCG Div. (PMW 740) Martina Jackson	Surface Ship Integration Div. (PMW 750/760) Mark Held	Submarine Integration Div. (PMW 770) Dave Bednarczyk	Shore C4I Integration Div. (PMW 790) Mark Luther
NAVAIR FMS	Surface New Construction	Submarine CWITTs & SWFTS Modernization	Naval Messaging
TacMobile	Large Deck New Construction	Afloat Submarine C4I	Tactical Shore Systems
C4I FMS	Interior Comms	Shore Submarine C4I	Unified Capabilities Voice Solutions
USCG		Submarine Software and Tools Development	Secure Voice Solutions
			Multi Media

Division Head: Martina Jackson
FY20 TOA: $331,684,976

Support includes end-to-end Systems Engineering and Lifecycle Support.

Surface Ship Integration Division (PMW 750/760)
## Overview

▼ **What We Do**

- Provide the engineering necessary for integrating C4I systems into a shipboard applications aboard U.S. Navy, MSC, and USV.

▼ **Major Systems**

- C4I for Surface New Construction
- C4I for Large Deck New Construction
- Shipboard Interior Communications
- Cooperative Engagement Capability (CEC)
- Enterprise VTC

▼ **Primary Customers**

- PEO C4I PMW 750
- PEO C4I PMW 760
- NAVSEA & PEOs
- IWS 6.0
- Military Sealift Command
- Various USN Commands
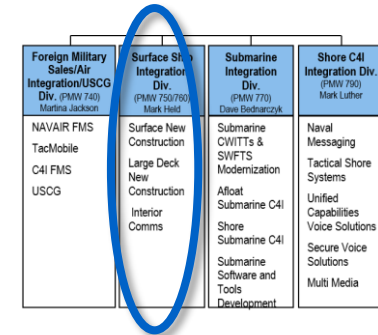
Division Head: Mark Held
FY20 TOA: $84,600,217.

Executes the advanced planning, engineering, integration and installation of C4I equipment on new-construction ships.

Surface Ship Integration Division (PMW 750/760)
Future Opportunities & Needs

▼ **Future Opportunities/Growth**

- **Interior Communications (IC) IPT**

  – IC IPT provides Mission Critical communications Mission Assurance Category (MAC) 1 to the Navy.

    – Wireless technology for interior communications

    – IVCS Services contract

    – FFG(X), Wired and Wireless Comms Class system solutions

- **Future Ships Project Support Follow-On Contract**

  – Description - JCIDS acquisition documentation development and support and applies MBSE best practices using a systems engineering approach. The impact of this business line continues to increase efficiencies between applicable NIWC Atlantic and NIWC Pacific commands and other stakeholders, including applicable S&T and R&D communities, to significantly improve the acquisition documentation for the warfighter.

▼ **Where Industry can Help**

- Technologies to enable transition to a virtual engr. / integration environment

- Migration of workforce digital production

- Introduction to innovative testing strategy and tools

- Use of wireless technology in secure spaces

- Wearable, Secure Video Voice and Telephony

- Next Gen-Turnkey

- Standardization of Platform Interfaces

- Cyber Security Engineering

- Information Assurance

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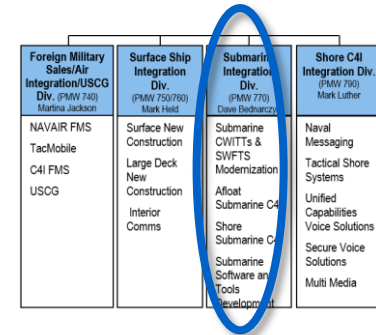# Submarine Integration Division (PMW 770)
Overview

▼ What We Do

- Delivers C5I capabilities and support to the Navy's submarine and associated ashore communications infrastructure during new construction and modernization.

▼ Major Systems

- Common Submarine Radio Room (CSRR)
- Submarine Operational Authority (SUBOPAUTH)
- Fleet Submarine Broadcast System (FSBS)
- Submarine Warfare Federated Tactical System (SWFTS)
  - Sonar, Combat Control, Imaging, Electronic Warfare, and Radar
- C5I System and Weapons Shipping, Handling, Launching Systems Integrated Test Team (CWITT)
  - Non Propulsion Electronic Systems (NPES)
  - Weapons, Shipping, Handling and Launchers

▼ Primary Customers

- NAVSEA & PEO SUB
- PEO C4I PMW 770
- Fleet Type Commanders

Foreign Military Sales/Air Integration/USCG Div. (PMW 740) Martina Jackson	Surface Ship Integration Div. (PMW 750/760) Mark Held	Submarine Integration Div. (PMW 770) Dave Bednarczyk	Shore C4I Integration Div. (PMW 790) Mark Luther
NAVAIR FMS	Surface New Construction	Submarine CWITTs & SWFTS Modernization	Naval Messaging
TacMobile	Large Deck New Construction	Afloat Submarine C4	Tactical Shore Systems
C4I FMS	Interior Comms	Shore Submarine C4	Unified Capabilities Voice Solutions
USCG		Submarine Software and Tools Development	Secure Voice Solutions
			Multi Media

Division Head: Dave Bednarczyk
FY20 TOA: $110,285,674

Support includes antenna to weapon system integration, engineering, fielding, test, logistics, sustainment and Fleet support.

Submarine Integration Division (PMW 770)
Future Opportunities & Needs

Naval Information Warfare Center ATLANTIC

▼ Future Opportunities/Growth

- Nuclear Command, Control and Communications-Naval (NC3-N)
  - Information handling, storage and distribution
  - Defense Industrial Base adherence and compliance with future policy

- Platform integration of SWFTS and C4I
  - System Engineering and Integration (SE&I)
  - Schedule Integration during Modernization for NPES (C5I)

- Columbia Class and SSN-X
  - Test and Evaluation, Logistics, Configuration Management, Information Security, Cyber Security, MBSE, etc.

- Submarine Software and Tools Development
  - Application development for Submarine Test Programs (Interactive Test Program – IPT)
  - Application development for Submarine Modernization Efforts (SM3)
  - Software development for Submarine Shore Based NC3 Communications

▼ Where Industry can Help

- Match and deliver the Navy's demand for new technologies and equipment.

- Ensure the growth and health of technical knowledge and skills.

- Improve planning and communication. Keep lines of communication open, deliver on time.

Upcoming Contract Development Efforts

▼ Submarine C5I, NC3 and SUBOPAUTH Test and Evaluation Engineering Support

▼ CWITT/ SWFTS Modernization

- Provide engineering, technical, logistics, and program support services to perform systems integration and T&E of new construction Submarine C5I and Weapons launcher systems, Modernization of SWFTS systems on all classes of submarines, and Submarine Operating Authority Communications including NC3 systems.

- Acquisition Strategy: Sole Source Niche (Follow-on to SEAPORT N65236-17-F-3083)

- Solicitation: N65236-20-TBD   RFP Estimated Q1 FY22

- Contract award planned for Q4 FY22

- Classification: TS/SCI

- Location of performance:

  - Contractor facilities

  - Government facilities, Public and Private Shipyards in the following states/countries:

    - Virginia, Connecticut, Maine, Georgia, California, Washington, Washington DC, Hawaii, Guam, South Carolina, North Dakota and various OCONUS locations

Upcoming Contract Development Efforts

▼ Submarine Software and Tools development

- Provide services to develop software products and tools, such as Interactive Test Procedure application, used for Test and Evaluation of C5I systems, primarily focused on submarines and related naval platforms. Also provide services for software required for the Submarine Operating Authority such as IDNS.

- Acquisition Strategy: Seaport NxGen open competition

- Solicitation: : N65236-20-TBD   RFP Estimated early Q1 FY22
    - RFI Feb 2021 N65236-SNOTE-094B34A0

- Contract award planned for Q3 FY22

- Classification: TS/SCI

- Location of performance:

    - Contractor facilities

    - Government facilities in the following states/countries:

        - Virginia

FSBS VLF/LF Engineering Services

▼ Fixed Submarine Broadcast System (FSBS) Fixed Very Low Frequency/Low Frequency (FVLF/LF) Systems Engineering Services.

- Solicitation Number: N65236-20-R-0024

- Projected solicitation RFP: TBD

- Scope of Work

  − Provide key engineering and integration services to theFixed Submarine Broadcast System (FSBS) by conducting analysis and implementing solutions for FSBS Fixed Very Low Frequency/Low Frequency (FVLF/LF) Naval Shore Antenna Transmitter sites for technical, logistical, and life cycle support.

- Location of performance:

  − South Carolina, Maine, N. Dakota, Washington (State), Hawaii, California, and various OCONUS locations across the globe.

Shore Submarine C4I Technical Support

▼ Shore Submarine Communications Systems (SSCS) Command, Control, Communications, Computers, & Intelligence (C4I) Technical Support

- Solicitation Number: N65236-20-R-3026

- Projected solicitation RFP: TBD

- Scope of Work

    − Provide key engineering and integration services to SSCS by conducting analysis and implementing solutions for SSCS BCA, BKS, BTS, and TACAMO sites for technical, logistical, and life cycle support.

- Location of performance:

    − Contractor's Facility

    − Government Facilities in the following states/countries:

        − California, Virginia, Hawaii, Japan, Italy, Oklahoma, California, Maryland, Georgia, and Washington

Shore C4I Integration Division (PMW 790)
Overview

▼ What We Do

- Designs, integrates, tests and delivers interoperable C4I infrastructure to support naval afloat, sub-surface, air platforms and shore network communications.

▼ Major Systems

- Shore Tactical Assured Command and Control (STACC)
- United States Naval Observatory (USNO) Precise Timing and Astrometry (PTA) Networks
- Naval Modular Automated Communications System II (NAVMACS II)
- Command and Control Office Information Exchange (C2OIX)
- Unified Capabilities Voice Solutions
- VINSON ANDVT Crypto Modernization (VACM)
- Automated Digital Network System (ADNS) Voice
- Defense Red Switch Network (DRSN)

▼ Primary Customers

- PEO C4I PMW 790
- NAVIFOR & other PEOs

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C4I FMS	Interior Comms	Shore Submarine C4I	Unified Capabilities Voice Solution
USCG		Submarine Software and Tools Development	Secure Voice Solutions
			Multi Media

Division Head: Mark Luther
FY20 TOA: $94,191,650

Support includes integration of voice, video and data across shore infrastructure supporting deployed warfighters.

Fleet Installations and Response Division
Overview

▼ What We Do
- Provide direct Fleet support after new platform delivery through the Fleet Support Office (FSO), Fleet modernization through the Installation Execution Office, and Fleet sustainment of system performance through the In-Service Engineering Agent (ISEA). Provide support to NAVSUP's Performance Based Logistics (PBL) through its PBL Office (PBL-O) by refurbishing, repairing and re-engineering selected components, equipment and sub-systems for critical items no longer serviced by Other Equipment Manufacturers (OEM) providers.

▼ Major Systems
- C4I Surface Modernization
- C4I Shore Modernization
- C4I Sub Modernization
- Fleet Support Services
- Installation Management Office
- Digitally Integrated Testing ITP SOVTs
- Fleet Support Office
- PBLO / DEPOT

▼ Primary Customers
- FRD 100
- FRD 200
- NAVSEA & PEOs
- NAVSUP

Fleet Installations and Response Division	
Len Little	
Fleet Support Office (FSO)	Surface Modernization Unit Level
Performance Based Logistics Office (PBLO)	Surface Modernization Force Level
Depot	Submarine Modernization C4I
	Shore Modernization

Division Head: Len Little
FY20 TOA: $336,339,300

Support Fleet Modernization and provide In-Service Engineering Support

Questions?